

HOUSING ASSEMBLY*		CONTACT†		COVER PART NUMBERS‡	
PART NUMBER	COLOR CODE	PART NUMBER	WIRE SIZE (AWG)	WHITE	BLACK
102934	Green	102930	22-20	103055**	103076**
102937					
102935	White	102929	26-22		
102938				103057††	103078††
102936	Yellow	102928	30-26	103058**	103079**
102939					

* HOUSING ASSEMBLIES CONSIST OF REFERENCED CONTACTS ASSEMBLED INTO HOUSINGS WHICH ARE AVAILABLE IN 6 THROUGH 60 POSITIONS.

† FOR CRIMP, SNAP-IN CONTACT PART NUMBERS, CHECK WITH AMP REPRESENTATIVE.

‡ TWO REQUIRED.

** COVERS ARE AVAILABLE IN 6 THROUGH 32 POSITIONS.

†† COVERS ARE AVAILABLE IN 6 THROUGH 60 POSITIONS.

Fig. 1

1. INTRODUCTION

This instruction sheet (IS) covers the selection and assembly procedures for the AMPMODU Level V IDC System shown in Figure 1.

Read these instructions and all referenced material before starting assembly procedures.

2. DESCRIPTION (Figure 1)

The connector system consists of a double-row housing, preloaded with insulation displacement contacts on .125-in. centers, and two snap-on covers.

Assemblies with 6 through 60 positions are available for solid and stranded wires with a range of 20 AWG to 30 AWG. Preloaded housings, covers, and contacts

are also available separately. See Figure 1.

Terminations can be made with discrete wire, jacketed cable, and ribbon cable as shown in Figure 1.

CAUTION

None of the preloaded housings should be terminated to wires with insulation greater than .050 in. in diameter. If oversize insulation is required, use Level V crimp, snap-in contacts.

The housings feature part numbers and polarization arrows stamped with color codes that identify wire size, contact locking lance cavities, cavity barriers, and contact cavities that will accept both insulation displacement contacts and crimp, snap-in contacts.

NOTE

Crimp, snap-in contacts are recommended for two-wire circuits, and for oversize wire insulation.

Covers are available with or without cable tie paddles. The cable tie paddles provide additional strain relief where required.

Each contact has two cantilever contact springs, a post stop, a locking lance, two wire slots, and a wraparound insulation barrel. The post stop is a feature that prevents overinsertion of a post contact.

The post stop protects wire terminated in the wire slots, and it protects wrap-type wire that may be attached to the post contact. The wraparound insulation barrel is intended to prevent the wire from being lifted from the insulation displacement slot.

3. TERMINATING TOOLS

During termination, the wire enters the two wire slots of the insulation displacement beams, and the insulation barrel forms around the insulation of the wire. See Figure 1.

The available tooling is listed in the chart in Figure 2. Production requirements will determine the tooling needed for your application. For assistance in selecting the tooling that will best suit your needs, consult your local AMP representative.

4. ASSEMBLY PROCEDURE

Determine the size of wire that you are going to

DESCRIPTION	MAXIMUM TERMN PER CYCLE	WIRE SIZE (Solid or Stranded)	PART NUMBER
Self-Indexing Manual Pistol Grip Tool	1	20-30 AWG	91407-1
Self-Indexing Pneumatic Pistol Grip Tool	1		91408-1
Discrete Wire Bench Terminator	1		58020-5
Jacketed Cable Terminator	2		1-231496-0
Control Module For Jacketed Cable Terminator	--	--	23016-3
Extraction Tool	--	--	91409-1

Fig. 2

terminate and proceed as follows:

1. Select connector components and termination tooling. See Figures 1 and 2.
2. Position the housing in the tool and the wire in the housing according to the instructions packaged with the tool.

AMPMODU LEVEL V CONNECTORS

3. Make the terminations and remove the housing from tool.
4. Inspect the terminations to be sure all wires are properly inserted.

NOTE

For additional inspection procedures, see AMP Application Specification 114-25020. Improper terminations can be corrected by the tool operator. See instructions packaged with the tool.

5. Position cover at a slight angle to housing and align the cover tabs with the back of the contact cavity.
6. Insert tabs into the contact cavities, then rotate cover toward the wires until cover seats on cavity barriers. See Figure 3.
7. Gather the wires in the wire area. See Figure 3.
8. Hold cover and wires in position and insert the second cover according to Steps 5 and 6.
9. Keep the wires in position and squeeze covers together until the locking latches engage the locking ledges.

NOTE

When using the cover with cable tie paddle, gather the wire in the paddle area and secure with a cable tie.

This completes assembly procedure.

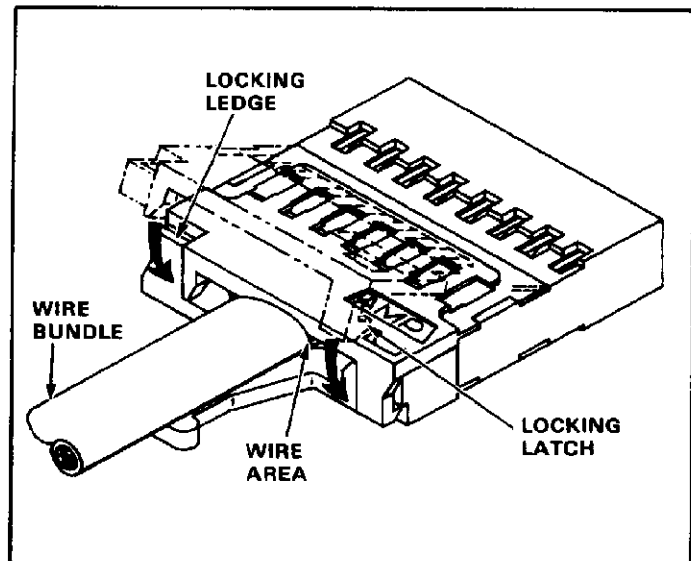


Fig. 3